



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3012

Job Sheet 168219



Part No: 646.3012

Job Qty: 10 ea

Part Name: Lower Guide



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 11/28/17

Created By: Linda Lacelle

Type: Stock

Description:

Note: DWG REV N/C SHEETS 1,3,5,8,9 IPP REV:A NEW ISSUE 13/01/30 JFS VERIFY BY: JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	10 Ea	11/27/17	11/27/17	0.00	0.00	Start Up Machining		SBL 18/01/17
100	Bandsaw	10 pcs	11/27/17	11/27/17	0.00	0.72	Bandsaw1		SBL 18/01/17
110	CNC Vertical Machining	10 pcs	11/28/17	11/28/17	0.20	11.49	HAAS 1		SBL 18/01/18
120	QC	10 pcs	11/28/17	11/28/17	0.00	0.00	QC2		SBL 18/01/18
130	QC	10 pcs	11/28/17	11/28/17	0.00	0.00	QC8		FK 18-1-10
131	HandFinish	10 pcs	11/28/17	11/28/17	0.00	0.00	HandFinish2		
140	Outsource	10 pcs	11/28/17	11/28/17	0.00	0.00	Outsource4		Chaf 18/02/18
150	Packaging	10 pcs	11/28/17	11/28/17	0.00	0.00	Packaging2		38
155	QC	10 pcs	11/28/17	11/28/17	0.00	0.00	QC5		9-88
180	Packaging	10 pcs	11/28/17	11/28/17	0.00	0.00	Packaging3		92
190	QC21-SA	10 Ea	11/28/17	11/28/17	0.00	0.00	QC21		21

Part Op 100 - Cut Blank at 27.500" ***ONE BLANK MAKE TWO PARTS***

Descriptions: 110 - 1-Machine per folio FB159

131 - CLEAN AND REMOVE ALL PART MARKING

140 - Issue P/O to ATG : 10 035802

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

JAN 17 2017

FEB 05 2018

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6B0.375X8.000	11	0	0	0

Part Specifications

Specifications could not be found.

FM138277 → FM138277

Plex 11/13/17 4:00 PM dart.boucher.sylvie

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

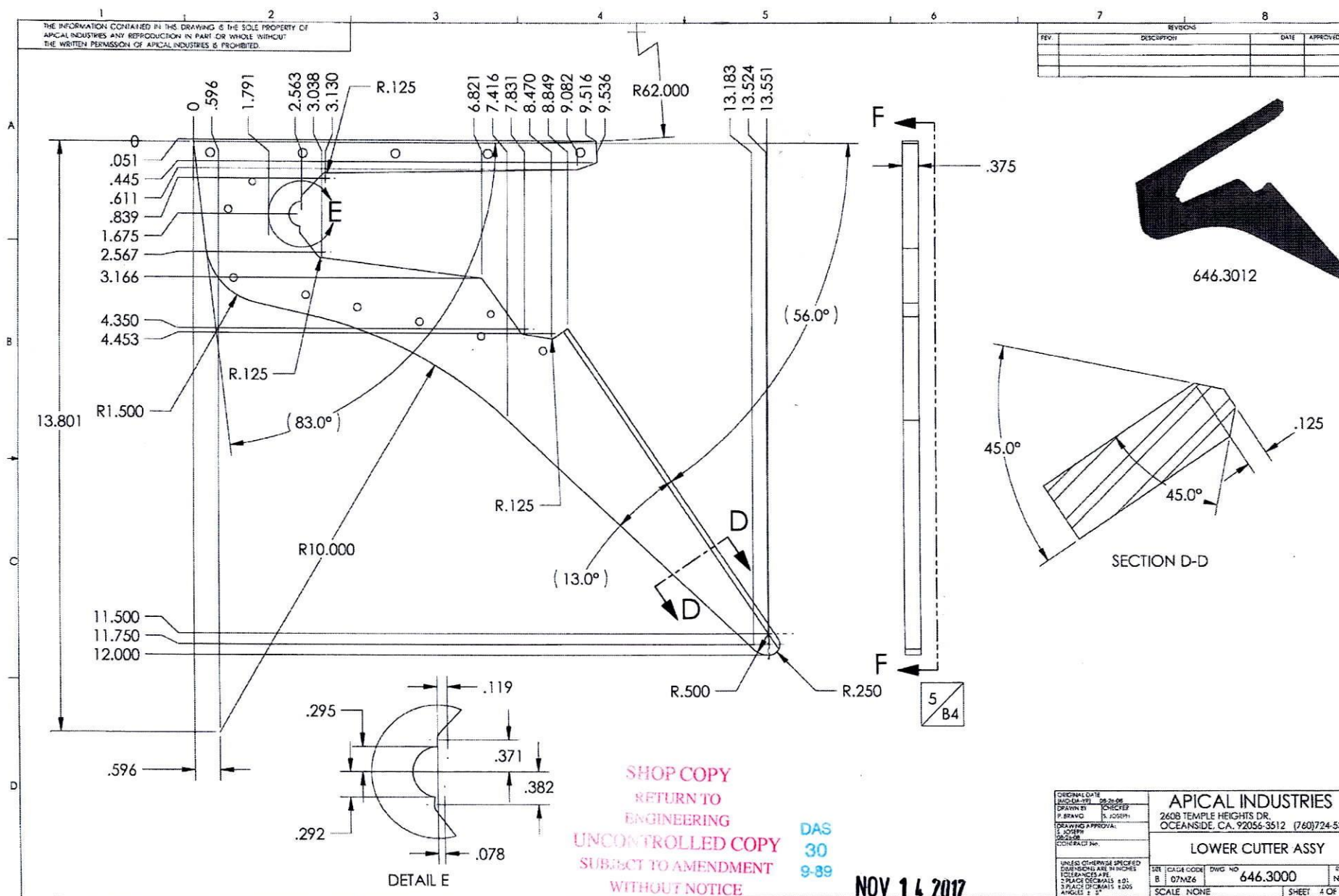


QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS S _____ M _____ Thermo _____ L _____ Q _____		Engineering ☐ Quality ☐ Other ☐ (1042) Approval _____ Completed By _____ d / Supervisor _____ al Verification _____ Coordinator _____ approval _____			
Date : _____		Step #: _____		Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com Lower Guide 646.3012 Start up Operation Mfg Date: 01/07/18 Job No: 168219					
Description Work Order Deviation									
Root Cause <table style="width:100%;"> <tr> <td style="width:50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	<table style="width:100%;"> <tr> <td style="width:50%;"> Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width:50%;"> Temperature ☐ Set-up ☐ BOM/Route ☐ Broken/Dar ☐ Inspection I ☐ Contaminat ☐ Countersink ☐ Cut Too Sho ☐ Instructions ☐ Drill Holes ☐ </td> </tr> </table>		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature ☐ Set-up ☐ BOM/Route ☐ Broken/Dar ☐ Inspection I ☐ Contaminat ☐ Countersink ☐ Cut Too Sho ☐ Instructions ☐ Drill Holes ☐	PART NO: Revision: Operation: Change No:	
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OTHER : _____				☐ Misaligned/off center ☐ Turning Sequence					

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



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APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
LOWER CUTTER ASSY			
SIZE B	CALS CODE 67M26	DWG NO 646.3000	REV N/C
SCALE NONE		SHEET 4 OF 8	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

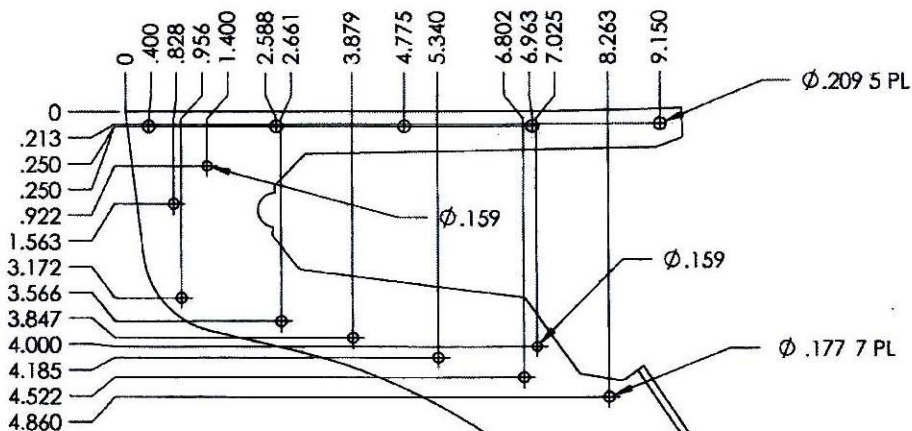
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REV.		DESCRIPTION	DATE	APPROVED



SECTION F-F 4/B6

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WORK ORDER
NO. 168219

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ORIGINAL DATE		APICAL INDUSTRIES	
DRAWN BY		2608 TEMPLE HEIGHTS DR.	
P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY		S. JOSEPH	
DRAWING APPROVAL		LOWER CUTTER ASSY	
S. JOSEPH		REV. N/C	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED		SHEET 5 OF 8	
DIMENSIONS ARE IN INCHES			
TOLERANCES ARE			
3 PLACE DECIMALS .001			
3 PLACE DECIMALS .005			
ANGLES ± .5°			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038802

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038802

PO Date: 1/17/18

Due Date: 1/31/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 30 2018

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	170136	D2348	Wearplate (Key Way) Issue P/O: _____ Black Anodize per Dwg D2348 Rev. C	Firmed	1/31/18	20 pcs	0 pcs	20 pcs	\$5.76/pcs	\$115.20
Line Item Note RUSH!!!!										
2	169475	647.7811	Bracket B Issue P/O to ATG : _____ Hard Black Anodize and Prime as per Dwg 647.7800 Rev. A	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$15.63/pcs	\$156.30
Line Item Note RUSH!!!!										
3	170172	647.7812	Center Plate, Upper Issue P/O to ATG : _____ Hard Black Anodize and Prime Dwg 647.7800 Rev. A	Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$9.88/pcs	\$59.28
Line Item Note RUSH!!!!										
4	168218	646.3011	RH Half Issue P/O to ATG : _____ Hard Black Anodize, Color Black and Prime as Per Dwg 646.3000	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$11.38/pcs	\$113.80
Line Item Note RUSH!!!!										
5	168219	646.3012	Lower Guide Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.3000	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$21.03/pcs	\$210.30
Line Item Note RUSH!!!!										
6	168217	646.3010		Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$11.38/pcs	\$68.28



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PURCHASE ORDER PO038802

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			LH Half Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 646.3000							
7	168018	646.3011	RH Half Issue P/O to ATG : Hard Black Anodize, Color Black and Prime as Per Dwg 646.3000	Firmed	1/31/18	4 pcs	0 pcs	4 pcs	\$11.38/pcs	\$45.52
8	168241	646.3711	Clip Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 646.3700 Rev. A	Firmed	1/31/18	12 pcs	0 pcs	12 pcs	\$7.23/pcs	\$86.76
9	168242	646.3712	Clip Issue P/O to ATG : Hard Anodize, Color Black and Prime as Per Dwg 646.3712 Rev. A	Firmed	1/31/18	12 pcs	0 pcs	12 pcs	\$7.23/pcs	\$86.76
10	168243	646.3713	Gusset Issue P/O to ATG : Hard Anodize, Color Black and Prime as per Dwg 646.3700	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$16.88/pcs	\$168.80
11	168244	646.3714	Gusset Issue P/O to ATG : Hard Anodize, Color Black and Prime as per Dwg 646.3700 Rev. A	Firmed	1/31/18	12 pcs	0 pcs	12 pcs	\$16.88/pcs	\$202.56
12	169366	646.9810	Deflector Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 646.9800 Rev. A	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$48.38/pcs	\$483.80
13	168275	647.0113	Strut Doubler Issue P/O to ATG : Hard anodize, Color Black and Prime as Per Dwg 647.0100 Rev. A	Firmed	1/31/18	15 pcs	0 pcs	15 pcs	\$12.88/pcs	\$193.20
14	168285	647.1510	Upper Deflector Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.1500 Rev. D	Firmed	1/31/18	4 pcs	0 pcs	4 pcs	\$21.78/pcs	\$87.12
15	168293	647.1713	Spacer Issue P/O to ATG :	Firmed	1/31/18	20 pcs	0 pcs	20 pcs	\$5.38/pcs	\$107.60



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Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			Hard Black Anodize and Prime as per Dwg. 647.1700 Rev. E							
16	169481	647.1714	Plate Issue P/O to ATG : Hard Anodize and Prime as Per Dwg 647.1700 Rev. E	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$31.38/pcs	\$313.80
17	169482	647.1715	Plate Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.1700 Rev. E	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$31.38/pcs	\$313.80
18	169479	647.7816	Aft Bracket Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.7800 Rev. A	Firmed	1/31/18	10 pcs	0 pcs	10 pcs	\$7.98/pcs	\$79.80
19	169480	647.7817	Aft Bracket Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.7800 Rev. A	Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$7.98/pcs	\$47.88
20	169484	647.7611	Lower Deflector Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.7600	Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$13.18/pcs	\$79.08
21	169474	647.7810	Bracket A Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg 647.7800 Rev. A	Firmed	1/31/18	4 pcs	0 pcs	4 pcs	\$12.03/pcs	\$48.12
22	169476	647.7813	Center Plate, Lower Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg. 647.7800 Rev. A	Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$9.88/pcs	\$59.28
23	169477	647.7814	Fwd Bracket Issue P/O to ATG : Hard Black Anodize and Prime as per Dwg. 647.7800 Rev. A	Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$7.98/pcs	\$47.88
24	169478	647.7815		Firmed	1/31/18	6 pcs	0 pcs	6 pcs	\$7.98/pcs	\$47.88



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			-ANODIZE COLOR RED, PER IAW MIL-A- 8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required							
Grand Total:										\$3,918.46

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/30/18 8:45 AM dart.baker.diane



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914522

Date: 31-Jan-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
10 ea	Part: 646.3011 RH Half Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22345	Rev: NC PO: PO038802	Line: 4
10 ea	Part: 646.3012 Lower Guide Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22346	Rev: NC PO: PO038802	Line: 5
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>30/01/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: <u>[Signature]</u> A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			